

FIGURE 1

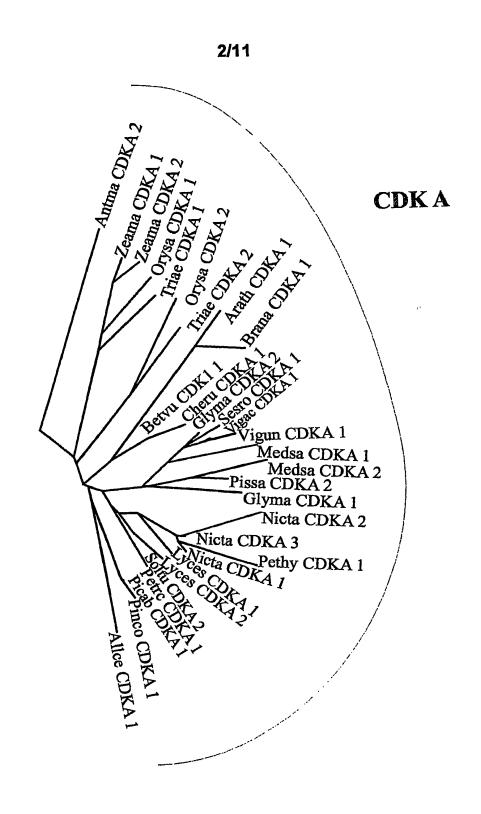


FIGURE 2

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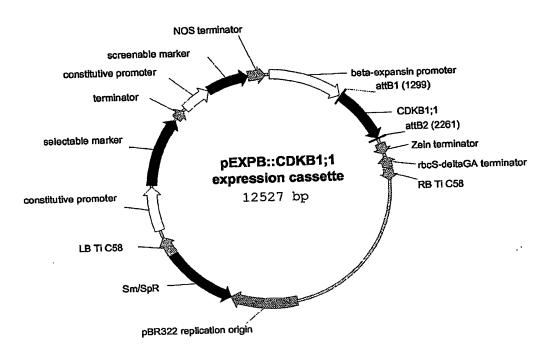


FIGURE 3

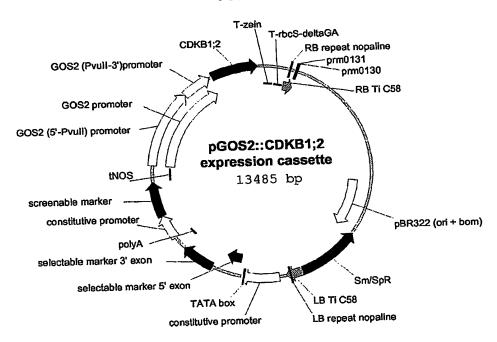
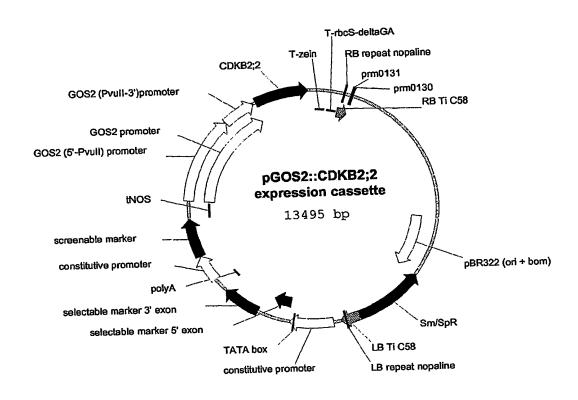


FIGURE 4

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SEQ ID NO 1: DNA sequence of CDK B 1;1

atggagaagtacgagaagctagagaaggtcggagaaggaacatacgggaaagtctacaaagc gatggagaaaggaactggtaagcttgttgctctgaagaaaactcgtctcgagatggacgaag aaggtattccaccaactgctcttcgtgagatctcgcttctccagatgttatcaacatcgatc tatgttgttcgattactctgcgtcgaacatgttcatcaaccatcaaccaaatctcaatctac caaatccaatctctatctcgttttcgagtatctcgatactgatcttaagaaattcatcgatt cgtataggaaaggacctaatcctaagcctcttgagccttttttgattcagaagttgatgttt cagctttgtaaaggtgttgcgcattgtcatagtcatggtgtgcttcaccgtgatcttaaacc gcagaatcttcttctggtgaaagataaagagcttcttaagattgctgatttgggtcttggtc gtgcttttactgttcctcttaagtcttatacgcatgagattgttactctttggtatagagct tatctttgctgagatggttcggaggcaagctcttttccctggtgattctgagtttcagcaat tgcttcatatcttcaggttgctaggaacaccaactgagcagcaatggccgggtgtttccaca ctgcgtgactggcatgtttaccctaagtgggagccgcaagacttaactcttgctgttccttc tetttcacctcaaggagttgatettetcacgaaaatgetcaagtacaatccagecgaaagaa tttcagcaaaaacagcacttgatcacccatattttgacagccttgacaagtctcagttctga

SEQ ID NO 2: Protein sequence of CDK B 1;1

MEKYEKLEKVGEGTYGKVYKAMEKGTGKLVALKKTRLEMDEEGIPPTALREISLLQMLSTSI YVVRLLCVEHVHQPSTKSQSTKSNLYLVFEYLDTDLKKFIDSYRKGPNPKPLEPFLIQKLMF QLCKGVAHCHSHGVLHRDLKPQNLLLVKDKELLKIADLGLGRAFTVPLKSYTHEIVTLWYRA ${\tt PEVLLGSTHYSTGVDMWSVGCIFAEMVRRQALFPGDSEFQQLLHIFRLLGTPTEQQWPGVST}$ LRDWHVYPKWEPQDLTLAVPSLSPQGVDLLTKMLKYNPAERISAKTALDHPYFDSLDKSQF

SEQ ID NO 3: DNA sequence of CDK B 1;2

atggagaaatacgagaagctcgaaaaggtcggtgaaggaacctatggaaaagtctacaaagc aatggagaaaaccaccggaaaactcgtcgctctgaagaaaactaggctcgaaatggacgaag tacatcgttcgtctcctctgcgtcgaacatgttattcaatcgaaagattcgactgtttctca ctctcccaaatcccaatctctatctcgtttttgagtatctcgacactgatctcaagaaattta tagattctcatagaaagggctcgaatcctagaccgcttgaggcttctcttgtgcagaggttt atgtttcagctttttaaaggtgtggctcattgtcatagccatggtgtgcttcaccgtgatct taaaccgcagaatcttctattggataaggataaagggattcttaagattgctgatttgggtc ttagtcgtgcttttactgtgcctcttaaggcttatacacatgagattgttactctttggtat agagetectgaagttttgettggttetacteattactetactgetgttgatatttggtetgt tggatgcatctttgccgagatgattaggaggcaagctcttttccctggtgattctgagtttc agcaactacttcatattttcagattgttaggaacaccaactgagcagcaatggccgggtgta atggcattgcgtgactggcatgtctatccaaagtgggagccgcaagacttatcacgtgctgt tccatctctatctcctgaaggaattgatcttctcacgcaaatgttgaagtacaatccagcag aaagaatttcagcaaaagcagctctcgatcatccctactttgacagccttgacaaatctcag ttctga

FIGURE 6

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SEQ ID NO 4: Protein sequence of CDK B 1;2

• MEKYEKLEKVGEGTYGKVYKAMEKTTGKLVALKKTRLEMDEEGIPPTALREISLLQMLSQSI YIVRLLCVEHVIQSKDSTVSHSPKSNLYLVFEYLDTDLKKFIDSHRKGSNPRPLEASLVQRF MFQLFKGVAHCHSHGVLHRDLKPQNLLLDKDKGILKIADLGLSRAFTVPLKAYTHEIVTLWY RAPEVLLGSTHYSTAVDIWSVGCIFAEMIRRQALFPGDSEFQQLLHIFRLLGTPTEQQWPGV MALRDWHVYPKWEPQDLSRAVPSLSPEGIDLLTQMLKYNPAERISAKAALDHPYFDSLDKSQ F

SEQ ID NO 5: DNA sequence of CDK B 2;2

atggacaacaatggagttaaacccgctgtttccgccatggaagcctttgaaaagcttgagaa agtaggtgaagggacttatgggaaagtttacagagcaagagagaaagctactgggatgatcg ttgctttgaagaagacgcgtctccatgaggatgaagaaggtgttcctcccactactcttcgc gcaaggaataaacaaagaaggaaaaactgtactttaccttgttttcgagtatgttgatactg atctcaagaaattcatcagaagctttcgtcaagctggacagaacattccacaaaatactgtc aagtgcttgatgtaccagttatgcaaaggcatggctttttgccatggtcatggagtgttgca cagggatcttaagcctcacaatctcttgatggaccggaagacaatgacgctcaaaatagcag atcttggattagccagagccttcactctcccaatgaaaagtatacacatgagattctaact ctatggtatagagctccggaagttcttcttggagcaacccattactctactggagtggatat ctgagctccaacagctcctccgtatattcaggttgttgggaacaccaaacgaagaagtttgg cctggagtaagcaaactcaaggactggcatgaatacccgcaatggaaaccgttgagtctctc cacagctgtgccaaacctcgacgaggctggacttgatctcttatctaaaatgctggagtacg agccagcaaaacgaatctcagcaaagaaagctatggagcatccttacttcgatgatttgcct gacaagtcctctctctga

SEQ ID NO 6: Protein sequence of CDK B 2;2

MDNNGVKPAVSAMEAFEKLEKVGEGTYGKVYRAREKATGMIVALKKTRLHEDEEGVPPTTLR EISILRMLARDPHIVRLMDVKQGINKEGKTVLYLVFEYVDTDLKKFIRSFRQAGQNIPQNTV KCLMYQLCKGMAFCHGHGVLHRDLKPHNLLMDRKTMTLKIADLGLARAFTLPMKKYTHEILT LWYRAPEVLLGATHYSTGVDMWSVGCIFAELVTKQAIFAGDSELQQLLRIFRLLGTPNEEVW PGVSKLKDWHEYPQWKPLSLSTAVPNLDEAGLDLLSKMLEYEPAKRISAKKAMEHPYFDDLP DKSSL

7/11 SEQ ID NO 7: DNA sequence of CDK A;1 (Oryza sativa)

acctctcctccgattaatcccctccctcttcttcctccacttctgcgcctgctcttcctc ccctcgccgaccctacctactcgcgccgccgtcgcattgggcggcaaacggagggggg ttaaccctgatggagcagtacgagaaggaggagaagattggggagggcacgtacggggtggt gtacagggcgcgggacaaggtcaccaacgagacgatcgcgctcaagaagatccggcttgagc aggaggatgagggcgtcccctccaccgcaatccgcgagatctcgctcctcaaggagatgcat cacggcaacatcgtcaggttacacgatgttatccacagtgagaagcgcatatatcttgtctt tgagtatctggatctggacctaaagaagttcatggactcttgtccagagtttgcgaaaaacc ccactttaattaagtcatatctctatcagatactccgcggcgttgcttactgtcattctcat agagttcttcatcgagatttgaaacctcagaatttattgatagatcggcgtactaatgcact gaagcttgcagactttggtttagccagggcatttggaattcctgtccgcacgtttactcacg aggttgtaaccttgtggtatagagctccagagatccttcttggatcaaggcagtattctaca ccagttgatatgtggtcagttggttgtatctttgcagaaatggtgaaccagaaaccactgtt ccctggtgattctgagattgatgaattatttaagatattcagggtactaggaactccaaatg aacaaagttggccaggagttagctcattacctgactacaagtctgctttccccaagtggcaa gcacaggatcttgcaactattgtccctactcttgaccctgctggtttggaccttctctaa aatgcttcggtacgagccaaacaaaaggatcacagctagacaggctcttgagcatgaatact tcaaggaccttgagatggtacaatgaccctgctatggctttacattggattggcatatgtat gggctgggctcctcatttcattccttctgtgaacgctgtgcccttcgtttgggcatttttg

SEQ ID NO 8: Protein sequence of CDK A;1 (Oryza sativa)

MEQYEKEEKIGEGTYGVVYRARDKVTNETIALKKIRLEQEDEGVPSTAIREISLLKEMHHGN IVRLHDVIHSEKRIYLVFEYLDLDLKKFMDSCPEFAKNPTLIKSYLYQILRGVAYCHSHRVL HRDLKPQNLLIDRRTNALKLADFGLARAFGIPVRTFTHEVVTLWYRAPEILLGSRQYSTPVD MWSVGCIFAEMVNQKPLFPGDSEIDELFKIFRVLGTPNEQSWPGVSSLPDYKSAFPKWQAQD LATIVPTLDPAGLDLLSKMLRYEPNKRITARQALEHEYFKDLEMVQ

SEQ ID NO 9: Protein sequence of Mutant 1 of CDK A;1

MEQHEKEEKIGEGTYGVVYRARDKVTNETIALKKIRLEQEDEGVPSTAIREISLLKEMHHGN IVRLHDVIHSEKRIYLDFEYLDLDLKKFMDSCPEFAKNPTLIKSYLYQILRGVAYCHSHRVL HRDLKPQNLLIDRRTNALKLADFGLARTFGIPVRTFTHEVVTLWYRAPEILLGSRQYSTPVD MWSVGCIFAEMVNQKPLFPGDSEIDELFKIFRVLGTPNEQSWPGVSSLPDYKSAFPKWQAQD LATIVPTLDPAGLDLLSKMLRYEPNKRITARQALEHEYFKDLEMVQ

SEQ ID NO 10: Protein sequence of Mutant 2 of CDK A;1

MEQYEKEEKIGEGTYGVVYRARDKVTNETTALKKIRLEQEDEGVPSTAIREISLLKEMHHGN IVRLHDVIHSEKRIYLVFEYLDLDLKKFMDSCPEFAKNPTLIKSYLYQILRGVAYCHSHRVL HRDLKPQNLLIDRRTNALKLADFGLARAFGIPVRTFTHEVVTLWYRAPEILLGSRQYSTPVD MWSVGCIFAEMVNQKPLFPGDSEIDELFKIFRVLGTPNEQSWPGVSSLPDYKSAFPKWQAQD LATIVPTLDPAGLDLLSKMLRYEPNKRITARQALEHEYFKDLEMVQ

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SEQ ID NO 11: Protein sequence of Mutant 3 of CDK A;1

MEQYVKEEKIGEGTYGVVYRARDKVTNETIALKKIRLEQEDEGVPSTAIREISLLKEMHHGN IVRLHDVIHSEKRIYLVFEYLDLDLKKFMDSCPEFAKNPTLIKSYLYQILRGVAYCHSHSVL HRDLKPQNLLIDRRTNALELADFGLARAFGIPVRTFTHEVVTLWYRAPEILLGSRQYSTPVD MWSVGCIFAEMVNQKPLFPGDSEIDELFKIFRVLGTPNEQSWPGVSSLPDYKSAFPKWQAQD LATIVPTLDPAGLDLLSKMLRYEPNKRITARQALEHEYFKDLEMVQ

SEQ ID NO 12: Protein sequence of Mutant 4 of CDK A;1

MEQYEKEEKIGEGTYGVVYRARDKVTNETIALKKIRLEQEDEGVPSTAIREISLLKEMHHGN IVRLHDVIHSEKRIYLVFEYLDLDLKKFMDSCPEFAKNPTLIKSYLYQILRGVAYCHSHRVL HRDLKPQNLLIDRRTNALKLADFGLARAFRIPVRTFTHEVVTLWYRAPEILLGSRQYSTPVD MWSVGCIFAEMVNQKPLFPGDSEIDELFKIFRVLGTPNEQSWPGVSSLPDYKSAFPKWQAQD LATIVPTLDPAGLDLLSKMLRYEPNKRITARQALEHEYFKDLEMVQ

SEQ ID NO 13: Protein sequence of Mutant 5 of CDK A;1

MEPYEKEEKIGEGTYGVVYRARDKVTNETIALKKIRLAQEDEGVPSTAIREISLLKEMHHGN IVRLHDVIHSEKRIYLVFEYLDLDLKKFMDSCPEFAKNPTLIKSYLYQILRGVAYCHSHRVL HRDLKPQNLLIDLRTNALKLADFGLARAFGIPVRTFTHEVVTLWYRAPEILLGSRQYATPVD MWSVGCTFAEMVNQKPLFPGDSEIDELFKIFRVLGTPNEQSWPGVSSLPDYKSAFPKWQAQD LATIVPTLDPAGLDLLSKVLRYEPNKRITAQQALEHEYFKDLEMVQ

SEQ ID NO 14: DNA sequence of beta-expansin promoter EXPB8

aaaaccaccgagggacctgatctgcaccggttttgatagttgagggacccgttgtgtctggt tttccgatcgagggacgaaaatcggattcggtgtaaagttaagggacctcagatgaacttat tccggagcatgattgggaagggaggacataaggcccatgtcgcatgtttggacggtccag atctccagatcactcagcaggatcggccgcgttcgcgtagcacccgcggtttgattcggctt cccgcaaggcggccggtggccgtgccgccgtagcttccgccggaagcgagcacgccgcc tactctctccgtttcacaatgtaaatcattctactattttccacattcatattgatgttaat gaatatagacatatatatctatttagattcattaacatcaatatgaatgtaggaaatgctag tgaaagaattaatgcaagatcgtatctgccgcatgcaaaatcttactaattgcgctgcatat atgcatgacagcctgcatgcgggcgtgtaagcgtgttcatccattaggaagtaaccttgtca ttacttataccagtactacatactatatagtattgatttcatgagcaaatctacaaaactgg aaagcaataagaaatacgggactggaaaagactcaacattaatcaccaaatatttcgccttc tccagcagaatatatatctctccatcttgatcactgtacacactgacagtgtacgcataaac gcagcagccagcttaactgtcgtctcaccgtcgcacactggccttccatctcaggctagctt tetcagecacecategtacatgtcaacteggegegegeacaggeacaaattacgtacaaaac ccgtccacccgcgccctcacctcgccgactataaatacgtaggcatctgcttgatcttgtca aca

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SEQ ID NO 15: DNA sequence of GOS2 promoter

atataaaatgagaccttatatatgtagcgctgataactagaactatgcaagaaaaactcatc cacctactttagtggcaatcgggctaaataaaaaagagtcgctacactagtttcgttttcct tagtaattaagtgggaaaatgaaatcattattgcttagaatatacgttcacatctctgtcat gaagttaaattattcgaggtagccataattgtcatcaaactcttcttgaataaaaaatctt tgaacgtattggcaaagatttaaacatataattataattttatagtttgtgcattcgtca attgacttattttattattatcttttttcgattagatgcaaggtacttacgcacacactt tgtgctcatgtgcatgtgtgagtgcacctcctcaatacacgttcaactagcaacacatctct aatatcactcgcctatttaatacatttaggtagcaatatctgaattcaagcactccaccatc accagaccacttttaataatatctaaaatacaaaaaataattttacagaatagcatgaaaag gcgccaatctcccatattgggcacacaggcaacaacagagtggctgcccacagaacaaccca caaaaaacgatgatctaacggaggacagcaagtccgcaacaaccttttaacagcaggctttg cggccaggagagaggagaggcaaagaaaccaagcatcctcctcctccatctataaat tcctcccccttttcccctctatataggaggcatccaagccaagaagagggagagcacca aggacacgcgactagcagaagccgagcgaccgccttcttcgatccatatcttccggtcgagt tcttggtcgatctcttccctcctccacctcctcacagggtatgtgcccttcggttgttc ttggatttattgttctaggttgtgtagtacgggcgttgatgttaggaaaggggatctgtatc ${\tt tgtgatgattcctgttcttggatttgggatagaggggttcttgatgttgcatgttatcggtt}$ cggtttgattagtagtatggttttcaatcgtctggagagctctatggaaatgaaatggttta gggtacggaatcttgcgattttgtgataccttttgtttgaggtaaaatcagagcaccggtga ttttgcttggtgtaataaaagtacggttgtttggtcctcgattctggtagtgatgcttctcg atttgacgaagctatcctttgtttattccctattgaacaaaaataatccaactttgaagacg gtcccgttgatgagattgaatgattgattcttaagcctgtccaaaatttcgcagctggcttg tttagatacagtagtccccatcacgaaattcatggaaacagttataatcctcaggaacaggg ${\tt tcactttctggttcagttcaatgaattgattgctacaaataatgcttttatagcgttatcct}$ agctgtagttcagttaataggtaatacccctatagtttagtcaggagaagaacttatccgat ttctgatctccatttttaattatatgaaatgaactgtagcataagcagtattcatttggatt atttttttttttagctctcaccccttcattattctgagctgaaagtctggcatgaactgtcct caattttgttttcaaattcacatcgattatctatgcattatcctcttgtatctacctgtaga gggatagttatactgcttgttcttatgattcatttcctttgtgcagttcttggtgtagcttg ccactttcaccagcaaagttc

SEQ ID NO 16: DNA sequence of sense primer prm0350

ggggacaagtttgtacaaaaagcaggcttcacaatggagaagtacgagaagctaga

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SEQ ID NO 17: DNA sequence of antisense primer prm0351 ggggaccactttgtacaagaaagctgggttcagaactgagacttgtcaagg

SEQ ID NO 18: DNA sequence of sense primer prm439
ggggacaagtttgtacaaaaaagcaggcttcacaatggagaaatacgagaagctc

SEQ ID NO 19: DNA sequence of antisense primer prm440 ggggaccactttgtacaagaaagctgggtggtcagaactgagatttgtc

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	MDEGVIAVSAMDAFEKLEKVGEGTYGKVYRAREKATGKIVALKKTRLHEDEEGVPPTT 60	
CDKB2.1	· · · · · · · · · · · · · · · · · · ·	
CDKB2.2		
CDKB1.1	MEKYEKLEKVGEGTIGKVINALMENDECKINALKKTRI,EMDEEGIPPTA 48	;
CDKB1.2	MEKYEKLEKVGEGTYGKVIKAMEKTTGKLVALKKTRLEMDEEGIPPTA 48	
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CDKB2.1	LREISILRMLARDPHVVRLMDVKQGLSKEGKTVLYLVFEYMDTDVKKFIRSFR 11	3
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CDKB1.2	IREISLLQMLSQSIYIVRLLCVEHVIQSABSIVSHBIXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
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CDKB2.1		
CDKB2.2		
CDKB1.1		68
CDKB1.2	KGSNPRPLEASLVQRFMFQLFKGVAHCHSHGVLHRFUHRFYXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
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CDKB2.2		
CDKB1.1		228
CDKB1.1		
CDKB1.2	AFTVPLKAYTHEIVTLWYRAPEVILGSTHISIAVDIWSVGCTTLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL	
		200
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CDKB2.2		
CDKB1.1	QLLHIFRYLLLVFDANVY-VYRNQFRTLAH	257
CDKB1.2	***:**: : : : : : : : : : : : : : : : :	

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CDKB2,1	AKRISAKMAMEHPYFDDLPEKSSL 313	
CDKB2.2	AKRISAKKAMEHPYFDDLPDKSSL 315	
CDKB1.1	AERISAKTALDHPYFDSLDKSQF- 309	
CDKB1.2		
JD122		